

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 09/516,0610 061  
Source: 1Fw16  
Date Processed by STIC: 4/8/05

***ENTERED***



IFW16

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/516,061D

DATE: 04/08/2005

TIME: 15:56:20

Input Set : A:\Seqlist.txt  
 Output Set: N:\CRF4\04082005\1516061D.raw

4 <110> APPLICANT: Gopalan, Venkat  
 5 Jovanovic, Milan  
 6 Eder, Paul S.  
 7 Giordano, Tony  
 8 Powers, Gordon D.  
 9 Xavier, K. Asish  
 12 <120> TITLE OF INVENTION: Novel Bacterial RNase P Proteins and  
 13 Their Use in Identifying Antibacterial Compounds  
 16 <130> FILE REFERENCE: 50093/016001  
 18 <140> CURRENT APPLICATION NUMBER: US 09/516,061D  
 19 <141> CURRENT FILING DATE: 2000-03-01  
 21 <160> NUMBER OF SEQ ID NOS: 98  
 23 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 25 <210> SEQ ID NO: 1  
 26 <211> LENGTH: 417  
 27 <212> TYPE: DNA  
 28 <213> ORGANISM: Streptococcus mutans  
 30 <400> SEQUENCE: 1  
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 32 gtttgaaaaa aagcctatcg cgttaaaagt gataaagatt ttcaggcaat ttttactgaa 120  
 33 ggacgaagtg ttgcataatcg gaaattttgtt gtctatagtt tagaaaaaaga tcaaagtac 180  
 34 tatacggttt gactttcagt tgaaaaaaga ttagggaaatg ctgtcgtagt aaatgcgatt 240  
 35 aaacgaaaaat tgccatgt ccttatggaa cttggcctt atttaggcac tcaagattt 300  
 36 gttgttattt ctagaaaaagg tggtaggaa cttgattata gcacgatgaa aaaaaatctg 360  
 37 gttcatgttt taaaactggc taaaactgtat caggaaggat ctattcgtga aaaagaa 417  
 39 <210> SEQ ID NO: 2  
 40 <211> LENGTH: 477  
 41 <212> TYPE: DNA  
 42 <213> ORGANISM: Klebsiella pneumoniae  
 44 <400> SEQUENCE: 2  
 45 cgtcgtcgtg ctaaaggccg cgctcgctg accgtttcca agtaataaaag ctaaccctgc 60  
 46 gtggtaaagc tcgcatttcc cagggagttt cgcttggtaa ctcccaagtc tttcaacttc 120  
 47 gtottccagc agccacaacg ggctggcagc ccgcaatca ccattcctcg cccctgaat 180  
 48 tcgctgggc atccccatcg cgtctcacc gtcgccaaga aaaacgtgaa acgcgcacat 240  
 49 gaacgcaatc ggattaaacg tctgacgcgt gaaagtttc gtttgcgtca acatgaactc 300  
 50 ccgccaatgg atttcgtggt ggtggcgaaa agaggggttg ccgacctcgta taaccgtgt 360  
 51 ctotcggaaat cgttggaaaa attatggcgc cgccattgtc gcctggctcg cgggtccctga 420  
 52 tcggcctgtat tcgagttt cagcgccgtt ttatccgtt actcggccgtt cattgtc 477  
 54 <210> SEQ ID NO: 3  
 55 <211> LENGTH: 455  
 56 <212> TYPE: DNA  
 57 <213> ORGANISM: Salmonella paratyphi  
 59 <400> SEQUENCE: 3

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PATENT APPLICATION: US/09/516,061D TIME: 15:56:20

Input Set : A:\Seqlist.txt  
Output Set: N:\CRF4\04082005\I516061D.raw

60 ctgaccgttt ccaagtaata aagctaacc ctagtggtt aagctcgcat ttcccaggga 60  
61 gttacgttg ttaactcccc ctcattcac attcgcttc cagcaacctc aacgggctgc 120  
62 acggccaa tcaccatcct cggccgcctg aattcgctgg ggcattcccc tatcggtctt 180  
63 accgtcgcca agaaaaatgt tcgacgtgcg catgaacgca accggattaa acgtctgacg 240  
64 cgtgaaagct tccgtctgcg ccagcatgaa cttcctgaa tggatttcgt ggtggggcg 300  
65 aaaaaagggg ttgcgcacct cgataaccgt gctctctcg aagcgttggaa aaaattatgg 360  
66 cggcccaact gtcgcctggc tcgccccgtcc tgatagccct tattcggttc tatcaacgccc 420  
67 tgatcagtcc gctgcttggg ccgcattgtc gtttc 455  
69 <210> SEQ ID NO: 4  
70 <211> LENGTH: 528  
71 <212> TYPE: DNA  
72 <213> ORGANISM: Pseudomonas aeruginosa  
74 <400> SEQUENCE: 4  
75 tctgtcgct cgtcgcgcca aaggccgtaa gcgtctgacc gtctgattta tccggtaacgg 60  
76 gtggtgagtc gggacttcga cggggacaag cgtctactga cagcccgca attcagcgca 120  
77 gtcttcgact ctccgcacccgg caaggtcccc ggcaagcacg tcctgctgt ggcgcgcgag 180  
78 aacggctctcg atcaccctccg cctggcctg gtgatcggca agaagaacgt caagctcgcc 240  
79 gtccagcgcga atcgcctcaa acgcctgatc cgcgaatcgt tccgcataaa ccagggaaacc 300  
80 ctggctggct gggatatcgt ggtgatcgcc cgcaaaaggcc tggggcaact ggaaaaatccg 360  
81 gagctgcacc agcagttcgg caagctctgg aaacgcctgt tgccaatcg acctcgcacg 420  
82 gaaagccctg ctgacgcccc tggcgtggcc gacggtaactc atgcatacggt cgatgcccgc 480  
83 gcatcccgat ccctgttagt tcataccccc ttcatgtgacc cggcaccgg 528  
85 <210> SEQ ID NO: 5  
86 <211> LENGTH: 510  
87 <212> TYPE: DNA  
88 <213> ORGANISM: Corynebacterium diphtheriae  
90 <400> SEQUENCE: 5  
91 ccggtcgcgc aatcggtggct gcacgtcgta acaagggtcg taagagcctg accgcctaag 60  
92 gtcactctta caagctcgaa tagaacgcacg gtgctacctt cacagcacaa gctcagcaat 120  
93 tccgaacagt tccgcgcac gattcggaaag ggcaaggcgtg ctgggaggag caccgtcggtt 180  
94 cttcattttt atgctgaggc gaccgcgggc aaccttgcac ccgcaggcgg cccgcgattc 240  
95 ggcctcggtt tgcctcaaggc tggtaat gctgtactc gtcaccgtgt ttccggcag 300  
96 ttaaggcacg tagtaatcgc tatgaaagac cagttccag cgtcatccca tggtaatcggt 360  
97 agggcgatac cgccagcggc gacagcaagt tatgaggagt tgccggcaga tgcaggca 420  
98 gcactcgaca agctcaaccg caagcgataa ggcggtaact cgcctcggtt ggctggtag 480  
99 tcgcgcattt tttatgtgcgg tgcgggttcta 510  
101 <210> SEQ ID NO: 6  
102 <211> LENGTH: 504  
103 <212> TYPE: DNA  
104 <213> ORGANISM: Chlamydia trachomatis  
106 <400> SEQUENCE: 6  
107 gctacaaaaaa gtggaaagaaa tcttttaat cgtcgccgc gtcacggcag acattccta 60  
108 attgatctt aagatcttc atttgcattt cggtaactc tacctaaaag tgcccgctt 120  
109 ttgaaacgtt aacaatttgc ttagtgcacg cttgtgggc aatattgtcg tactgtatcg 180  
110 gcaactttac gaatagtcc ttctcgatc tgcacatcc gtaaagttagg ggtaactgtt 240  
111 tctaaaaat ttggaaagc ccatcagcgc aatcgcttta aaagaattgt gcgagaggct 300  
112 ttttaggcattt tgcgacccaa tcttccgcac tgcgttgcgtt tagtgcattcc taaagggggc 360  
113 actctaccaa atttggtaa actatccgcg gatcttctta agcatattcc agaggcttg 420  
114 cctctcgatc cttttctaa gtatgtttt atttggtca aaaaataaaaa aaccattcca 480

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/516,061D

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Input Set : A:\Seqlist.txt

Output Set: N:\CRF4\04082005\I516061D.raw

115 cgctatagag gcatggaatg ggaa 504  
 117 <210> SEQ ID NO: 7  
 118 <211> LENGTH: 492  
 119 <212> TYPE: DNA  
 120 <213> ORGANISM: Vibrio cholerae  
 122 <400> SEQUENCE: 7  
 123 ggcagcgtgg gccgataagt ggactaataa accactggta aagttttaca ataccaatgg 60  
 124 ctaaccacga gaaggcgag agaggcgtg ccatagttg ccaagcaagt taaacagttc 120  
 125 ttcattgctc aaatcttgcg cgctttttt ggcgatgaca acaaaatctt tggtagccag 180  
 126 ttgattttga tgtaagcgaa agcttctct gcaaatacgt ttgaatcgat tacggccgac 240  
 127 ggcagtttg atctgtttt taggaaccgc gagttccaaa cgaggatgag aaaggttatt 300  
 128 agcgcgagcg atgattgtga gatgaggaga accagcactg tgagcttgct ggaagacttt 360  
 129 ttgataatgt tcggaggtta acaaacgtaa ctcccgattt aatgcgtacg tactcaaaat 420  
 130 aattcgagat tattttgaca ggcgcttacg gcctttgca cgacgtgcat tcagaacttt 480  
 131 acgaccgttc gc 492  
 133 <210> SEQ ID NO: 8  
 134 <211> LENGTH: 492  
 135 <212> TYPE: DNA  
 136 <213> ORGANISM: Neisseria gonorrhoea  
 138 <400> SEQUENCE: 8  
 139 atttcccttg tatggaaaac ccgttgcgt ctgaaccttg cctgcagggt accgttctga 60  
 140 tcataccctgt ttccgcacatc cgggtgcggg gttggcgaac atgagtttg ccagttccgc 120  
 141 cttgcctgt tttgcggtag ccctgtcgaa tttccggcg acgcgcacga cgaatcctg 180  
 142 aggcggcagc cggttttgt tcaatctgaa ccagtcgccc atgacgcgtt tcatatagtt 240  
 143 ccgctcggttgc ggcgtttgg cggttttttt gccgaccacc agaccgatgc gggatggtc 300  
 144 cagcccggttgc ccgttgagc gcgaaacttgc cagcaggtcg cggctgcggc ggtttctgaa 360  
 145 tgcaaaaacg gatgaaaaat catccgtttt taacaagcggt tactgccttc cgaagcggta 420  
 146 gtccaaaattt acactgcccag gcgtttgcgg ccttggcac ggcgtgcggc caataactgcg 480  
 147 cgtccgcgcgttgc 492  
 149 <210> SEQ ID NO: 9  
 150 <211> LENGTH: 492  
 151 <212> TYPE: DNA  
 152 <213> ORGANISM: Neisseria meningitidis  
 154 <400> SEQUENCE: 9  
 155 tttcccttag tatggaaaac ccgttgcgt ctgaaccttg cctgcagggt accgttctga 60  
 156 tcatgcctgt ttccgcacatc cgggtgcggg gttggcgaac atgagtttg ccagttccgc 120  
 157 cttgcctgt tttgcggtag ccctgtcgaa tttacggcg acgcgcacga cgaatcctg 180  
 158 cggcggcagc cggttttgt tcaatctgaa ccagtcgccc atgacgcgtt tcatataatt 240  
 159 tggccgttgc ggcgtttgg cggttttttt gccgaccacc agaccgatgc gggatgatc 300  
 160 cagcccggttgc ccgttgcac gcgaaacttgc cagcaggtcg cggctgcggc ggtttctgaa 360  
 161 tgcaaaaacg gatgaaaaat catccgtttt caacaagcggt tactgccttc cgaagcggta 420  
 162 gtccaaaattt acaccgcac gcgtttgcgg ccttggcac ggcgtgcggc caataactgcg 480  
 163 cgtccgcgcgttgc 492  
 165 <210> SEQ ID NO: 10  
 166 <211> LENGTH: 462  
 167 <212> TYPE: DNA  
 168 <213> ORGANISM: Streptococcus pyogenes  
 170 <400> SEQUENCE: 10  
 171 gtacacctcactcac cacgaccacaca ggccactaat aatagaacta aggggactat tcttgcattt 60

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172 ttaatgtttt tcttcaactct caaaaaccttt ctcaagcaat tgtgctaact ttaaaacatg 120  
 173 atgtaaattt tggtaagct cttgatactc caaagattcg acaccctac gggcaatcac 180  
 174 cacgaaatcc tctgacttca gctgatgccc taatgccatg ataacatgac gtatcttcg 240  
 175 tttgactgca tttctggta ctgcattcc tattttta ccgacagaaa taccacacg 300  
 176 gaagtggctc tggcctctat ttaaatgata aatgacaaat tttcgattt ctgtactttt 360  
 177 tccatcctta aatatggctt ggaaatctt ctcacgctt acacgatagg tcttcttcaa 420  
 178 aatttaactc caatatctaa attattacca ttataaccaca tc 462  
 180 <210> SEQ ID NO: 11  
 181 <211> LENGTH: 492  
 182 <212> TYPE: DNA  
 183 <213> ORGANISM: *Bordetella pertussis*  
 185 <400> SEQUENCE: 11  
 186 ccacccagg gctgaggaag taccggtaaa accggatcg ggcgataagc agtctcctga 60  
 187 tcatcgcgct atccgtgtga agtgagcatc tactcggcg cgccgcgagc gttcaggc 120  
 188 cgtgaggctt gccgggtca gcttgctgtg cagccgcacc acgtaatcct gggccggcag 180  
 189 ggcaagccgg cgagcccgga acgcttcgag gatgaccgc ttcaaggat tgcgcgtcac 240  
 190 ggccggggcg gcaaaacgct tggcgatcac caggcccagg cgccgcgcg ccgctggc 300  
 191 atcagcaggg gcacagggcg aggcgctgac aataaaagaaa gcccctcggg ccagtcgc 360  
 192 gccttgagg gcggccgcaaa actcggaggg gcgatgcaat cgccctccg cagggagcgt 420  
 193 ggccgcgcgc atgggtgacg tgacggagac tggcgacggg gccggccgcg atgctcctgt 480  
 194 tacaggcaat cc 492  
 196 <210> SEQ ID NO: 12  
 197 <211> LENGTH: 534  
 198 <212> TYPE: DNA  
 199 <213> ORGANISM: *Porphyromonas gingivalis*  
 201 <400> SEQUENCE: 12  
 202 agaagaaaaat ggggagcagt aagagttgca cgagaaaaagc cttgatcagt cgcatcgat 60  
 203 ttactcgttt ttcaaagccg atgaaggatc atttccggca attctgatca gactctttt 120  
 204 catcgctctc tccactgtac gaaagtcaagg aagtcatcc gatactacca taaatgcaat 180  
 205 agtagcatag atctgtctct cttggaggac atcgttcagg aggtgttgc tgagccata 240  
 206 acgctccctg accaaacgct tgaccctatt ggcgttcacg gctgcctaa accttttctt 300  
 207 tgctacgctt accagcatgg aggaatatgc aactcgatgc tccgatccca gacggtagac 360  
 208 tacgcgtaga ggataaaacga caaacgcctt gcctcgcca aagaccgtat tgatttcatc 420  
 209 gccaagatag aggccgttcgc ttttgatag gccaatgta ggcggagagg tcatttcccg 480  
 210 ttgaggtat cctctaatgc catagccata gaaggatatt gctcggtcgg cgca 534  
 212 <210> SEQ ID NO: 13  
 213 <211> LENGTH: 495  
 214 <212> TYPE: DNA  
 215 <213> ORGANISM: *Streptococcus pneumoniae*  
 217 <400> SEQUENCE: 13  
 218 tcgctagttt cccccattttt cgcacaggct gtcatgatta acagagacag tcctagcaaa 60  
 219 cttagtcaact ttagtttctt tttcaactccc atttccctcc cggtaaatct ttgataattt 120  
 220 taatacatgg agtagatttt tctccatctc tgcgtatccc aaggttcga ctcccttcg 180  
 221 agcaatgaca acaaagtcga catcttctac cagactccct tttgcattct ggataatatg 240  
 222 ccgaatccgt cgcttaattt gatttcttagt gacggcattc cccagtttt tgctaactga 300  
 223 tagacctact cgaaaacggt tttctgggt ttcttaattgg tagaccacaa atttgcgatt 360  
 224 agcaaaaactt gtcccctctt tgaaaatcgc cttaaaatct ttctctctt ttacacgaaa 420  
 225 gttttcttc aaaactcaac tccatctatt aaattactac tattataccca tattttcaa 480  
 226 aaaagccaat catag 495

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DATE: 04/08/2005

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Input Set : A:\Seqlist.txt

Output Set: N:\CRF4\04082005\I516061D.raw

228 <210> SEQ ID NO: 14  
 229 <211> LENGTH: 465  
 230 <212> TYPE: DNA  
 231 <213> ORGANISM: Clostridium difficile  
 233 <400> SEQUENCE: 14  
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 235 ttaaatagaa atatccgttc tttaactaa atttttata gacttgtcta tgtcttaaaa 120  
 236 agtagcatcc ttactagata cccttgctat aaatactata tcataatccag gcttaatttt 180  
 237 ttcatcaata tttaatctgt aggcttctt tattaatctt cttaactctat tcctagtaat 240  
 238 agctttcctt acttttttg aaacagaaaat acctactcta ctataatctg atttatttt 300  
 239 aagtatataat attactaaat atttgttgc aaaagatttgc ccgtgttat atacttttct 360  
 240 aaaatcagag tctttttca acccttttagt cctattaaag tccatagatca acctccataaa 420  
 241 acacagctat gaatcgtaat tatttacaca aaaaggccac ctttg 465  
 243 <210> SEQ ID NO: 15  
 244 <211> LENGTH: 447  
 245 <212> TYPE: DNA  
 246 <213> ORGANISM: Camphylobacter jejuni  
 248 <400> SEQUENCE: 15  
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 250 tcatttgaaa cattctagtt tttaatcc ccattttaga tttttttcta acctagaaaa 120  
 251 agaaaagttca gtgatttcat tttagctac aaaaatataat ttgcacatctt gaagatatct 180  
 252 ttcaaaactta gcaaaacaaag ctcttaaaat tcgtttgaa cgatttctaa ccactgctt 240  
 253 tccaaactttt ttactagcaa caactgctat tttttttca taactattca gataaaaaat 300  
 254 gatcacacct tcgcaatgcc attttttgcc tactttataat acagataaaa attcctcggt 360  
 255 tgtgcttaaat ttatcaaaaat ttacacaca gcaagtctt ttctacctt agcgcgtctt 420  
 256 gcattgatca ctttgcgacc attttta 447  
 258 <210> SEQ ID NO: 16  
 259 <211> LENGTH: 480  
 260 <212> TYPE: DNA  
 261 <213> ORGANISM: Baccillus anthracis  
 263 <400> SEQUENCE: 16  
 264 taaaacctaatttca aagcctactc ctccttgat cggtatgtat atagtgtat 60  
 265 tcatttcctt acgctactttt ttattttt cataccagag cgtttaaaga catgaattaa 120  
 266 gcttttctt aattttcat atgtcatctc tgacacaaggc ttcccttgata ttataacaaa 180  
 267 atcttttcca gaatctatct catctttaa ttctgtgatc gactggcgaa tcatacgat 240  
 268 aattcggta cgcaactactg catttcctat cttcttgatc acagaaaggc caatacgaaa 300  
 269 gtttggctgc tctttttat ctatgtgata gacaacaaat tgacgatcg cattcgattt 360  
 270 tccttttga aaaacgtct gaaattcatc attttttt atacgatgtt tttcttcat 420  
 271 atcaatttgac actcctgtat ttcatcagcg gaaattcact attattagaa aaaaagacca 480  
 274 <210> SEQ ID NO: 17  
 275 <211> LENGTH: 480  
 276 <212> TYPE: DNA  
 277 <213> ORGANISM: Mycobacterium avium  
 279 <400> SEQUENCE: 17  
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 281 tcacggcccg gttcccgccg gcatgcgcgg caggcaccgc tgacgttctt ggcgcaggcg 120  
 282 cgccgcacgac gcggtccggc ttccggggcag cgccgcgaatc accagccgtt cggatggttc 180  
 283 gagttcgccg agcaggggccc gggccacgtg acgcagccgg cggggccacgc ggtgtcggt 240  
 284 caccgcgcgc ccgacggcct tccgcacgac cagccgcacc cgtggggcccg cggattcgatc 300

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 04/08/2005  
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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:44; Xaa Pos. 28  
Seq#:92; Xaa Pos. 35,63

**VERIFICATION SUMMARY**

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L:861 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:16

L:1564 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:92 after pos.:32

M:341 Repeated in SeqNo=92